

GEOSTATIONARY EARTH SCIENCE
PLATFORM CONCEPTS

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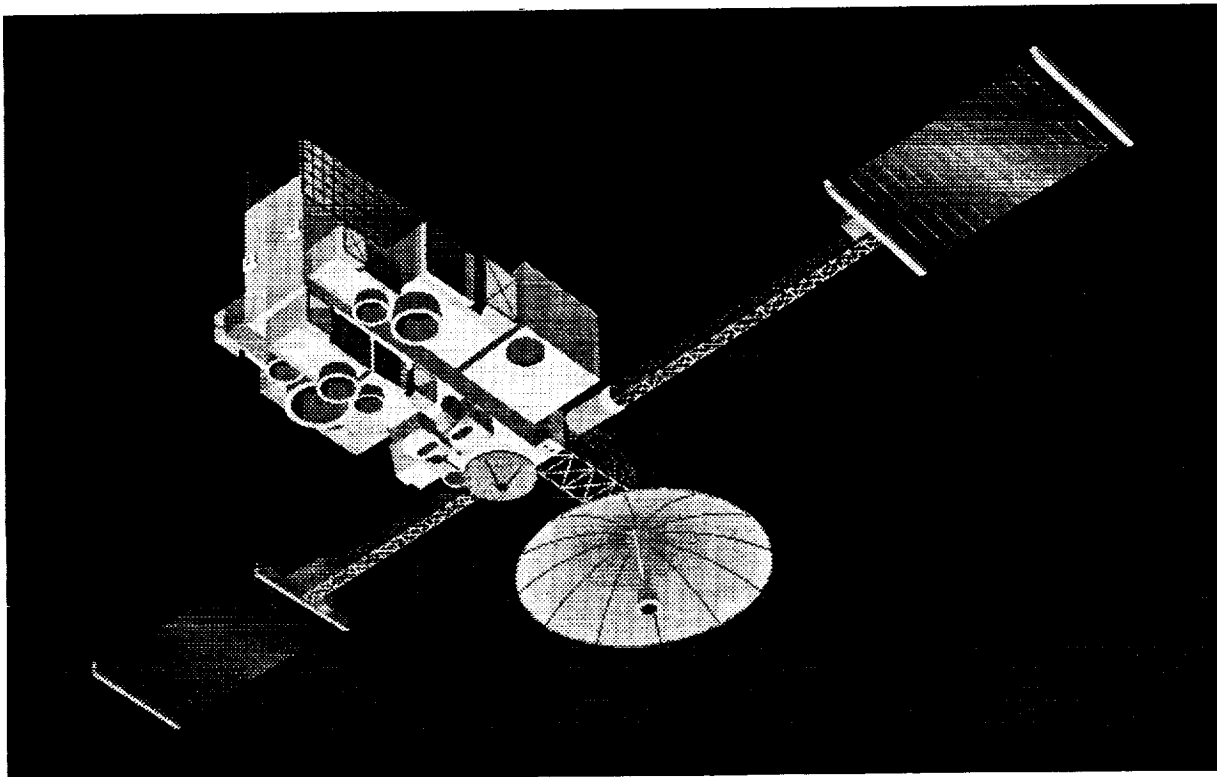
Three new concepts are presented for the Geostationary Earth Science Platform. Bus and payload arrangements, with instrument locations on the payload module and basic payload dimensions, are depicted and compared for each concept.

The Titan IV SRMU (with solid rocket motor upgrade) launch vehicle is described and compared to the standard Titan IV. The upgraded Titan IV is capable of launching a 13,500 lb. payload to GEO*. The launch configuration showing each concept packaged within the 16 ft. diameter payload envelope is presented.

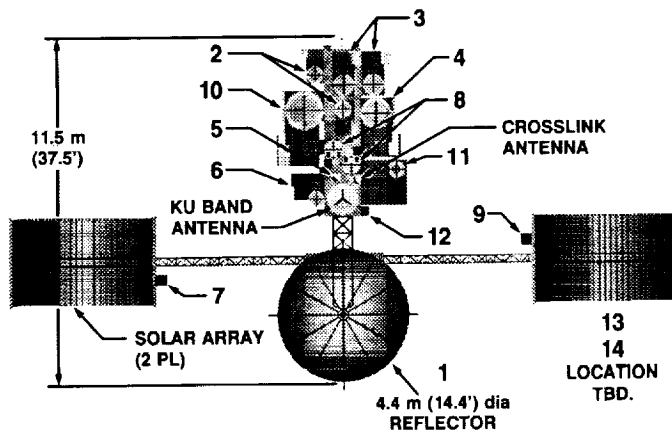
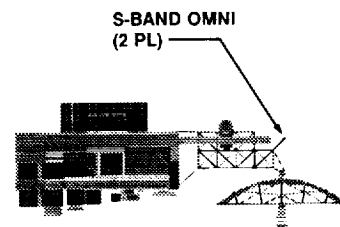
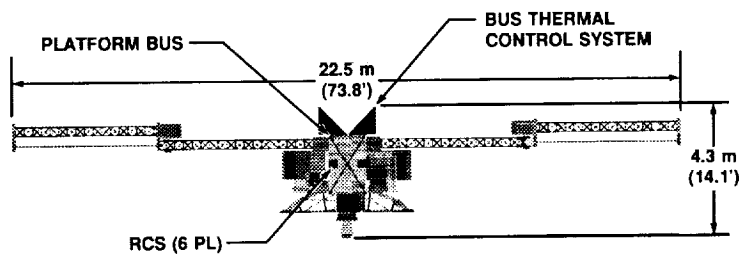
*geosynchronous orbit (GEO).

NEW PLATFORM CONCEPTS

GEOSTATIONARY EARTH SCIENCE PLATFORM CONCEPT 5F-2A

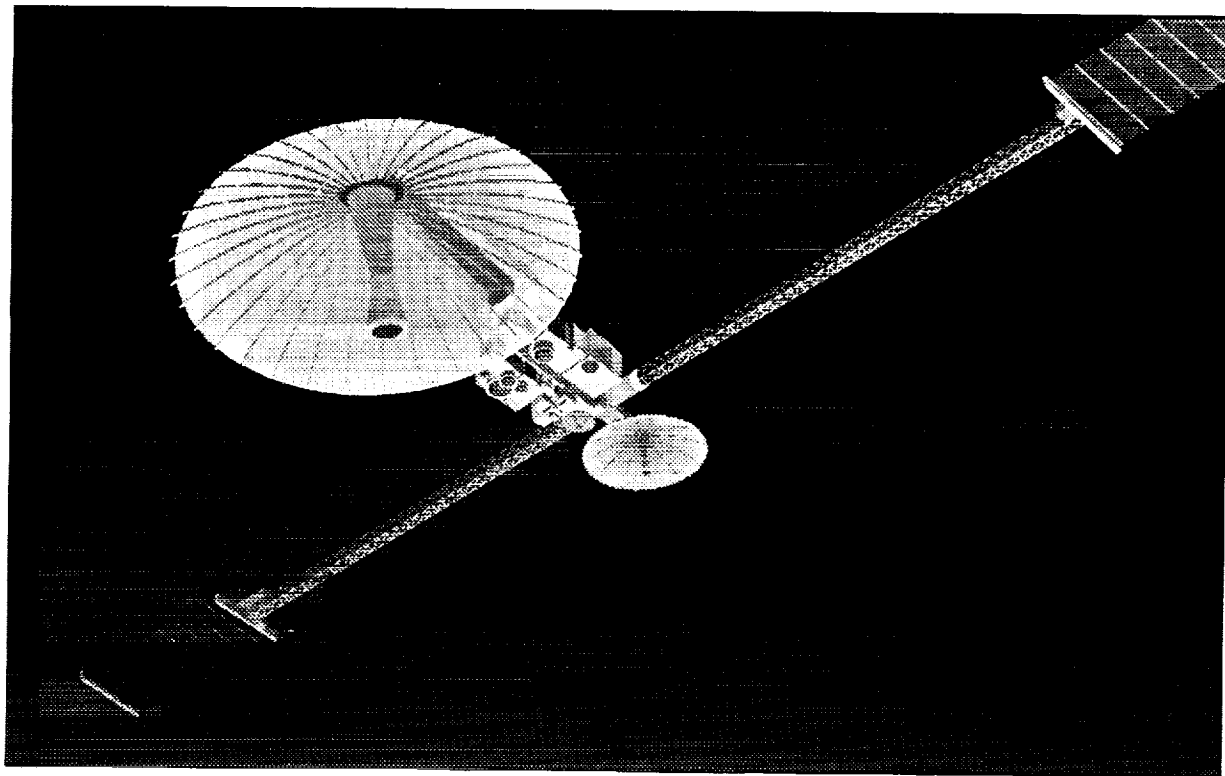


PLATFORM CONCEPT 5F-2A
BUS AND PAYLOAD ARRANGEMENT

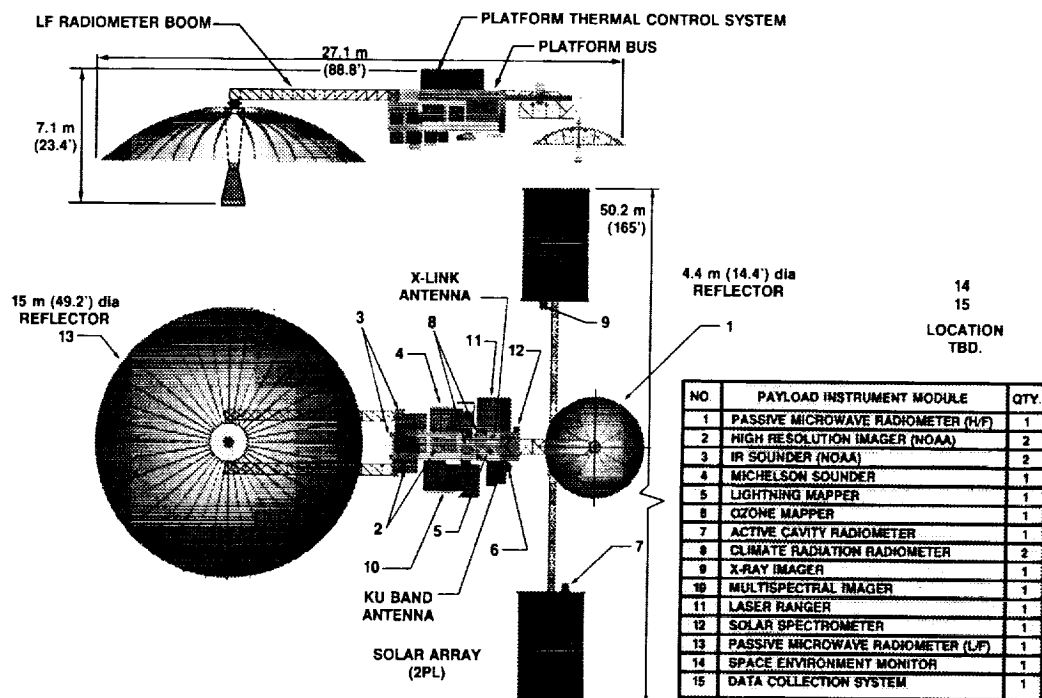


NO.	PAYLOAD INSTRUMENT MODULE	QTY.
1	PASSIVE MICROWAVE RADIOMETER (H/F)	1
2	HIGH RESOLUTION IMAGER (NOAA)	2
3	IR SOUNDER (NOAA)	2
4	MICHELSON SOUNDER	1
5	LIGHTNING MAPPER	1
6	OZONE MAPPER	1
7	ACTIVE CAVITY RADIOMETER	1
8	CLIMATE RADIATION RADIOMETER	2
9	X-RAY IMAGER	1
10	MULTISPECTRAL IMAGER	1
11	LASER RANGER	1
12	SOLAR SPECTROMETER	1
13	PASSIVE MICROWAVE RADIOMETER (L/F)	1
14	SPACE ENVIRONMENT MONITOR	1
15	DATA COLLECTION SYSTEM	1

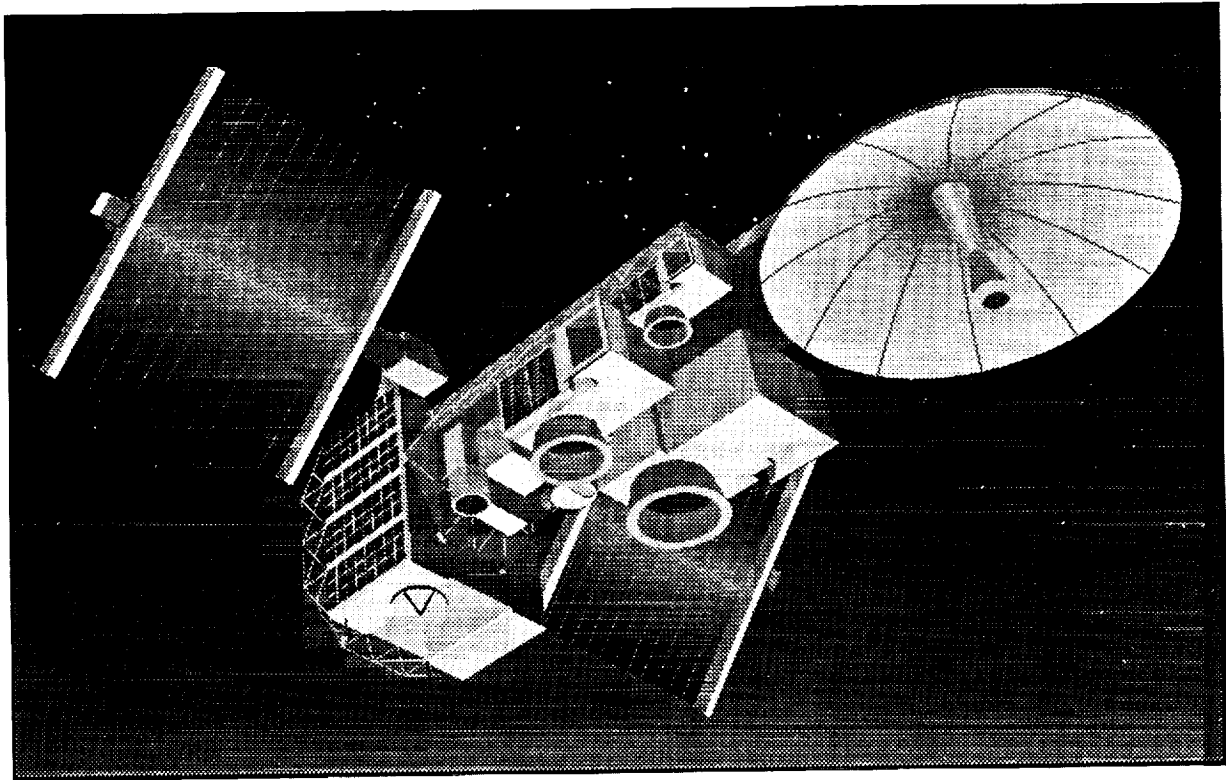
GEOSTATIONARY EARTH SCIENCE PLATFORM CONCEPT 6F-2A



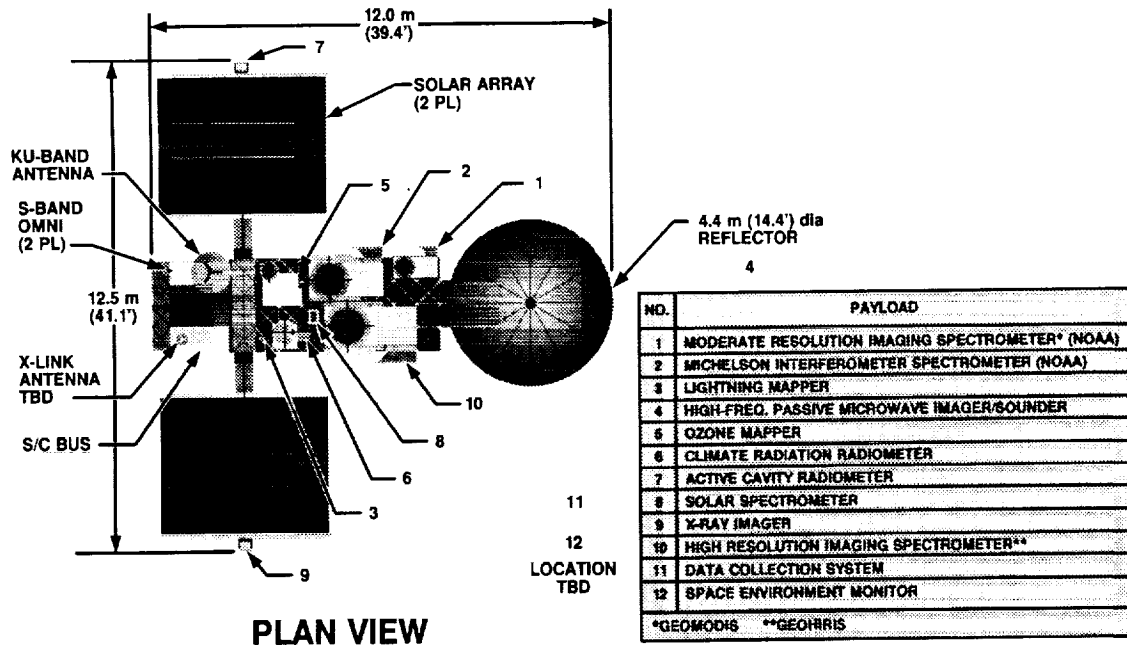
PLATFORM CONCEPT 6F-2A
BUS AND PAYLOAD ARRANGEMENT



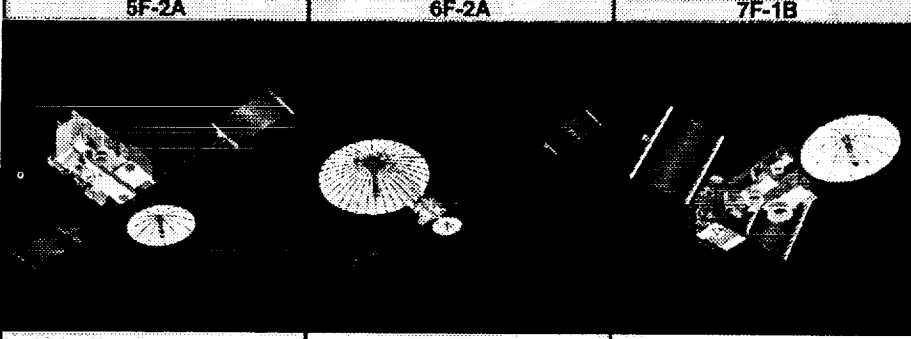
GEOSTATIONARY EARTH SCIENCE PLATFORM CONCEPT



PLATFORM CONCEPT 7F-1B
BUS AND PAYLOAD ARRANGEMENT

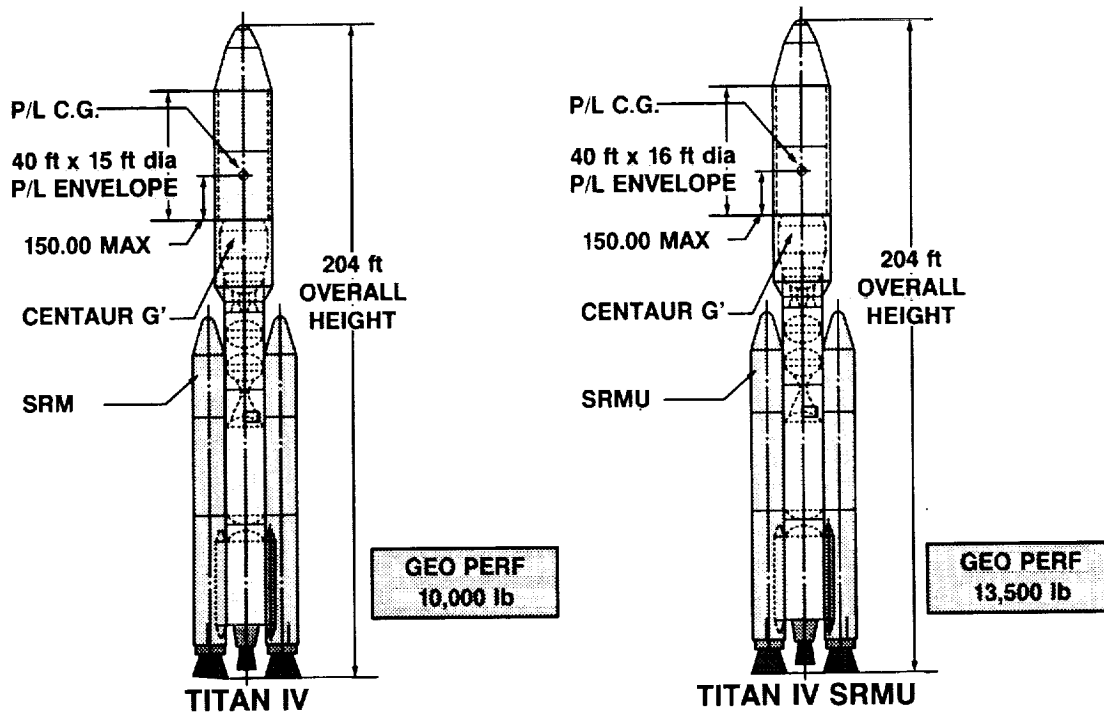


GEOSTATIONARY EARTH SCIENCE PLATFORM CONCEPT SUMMARY

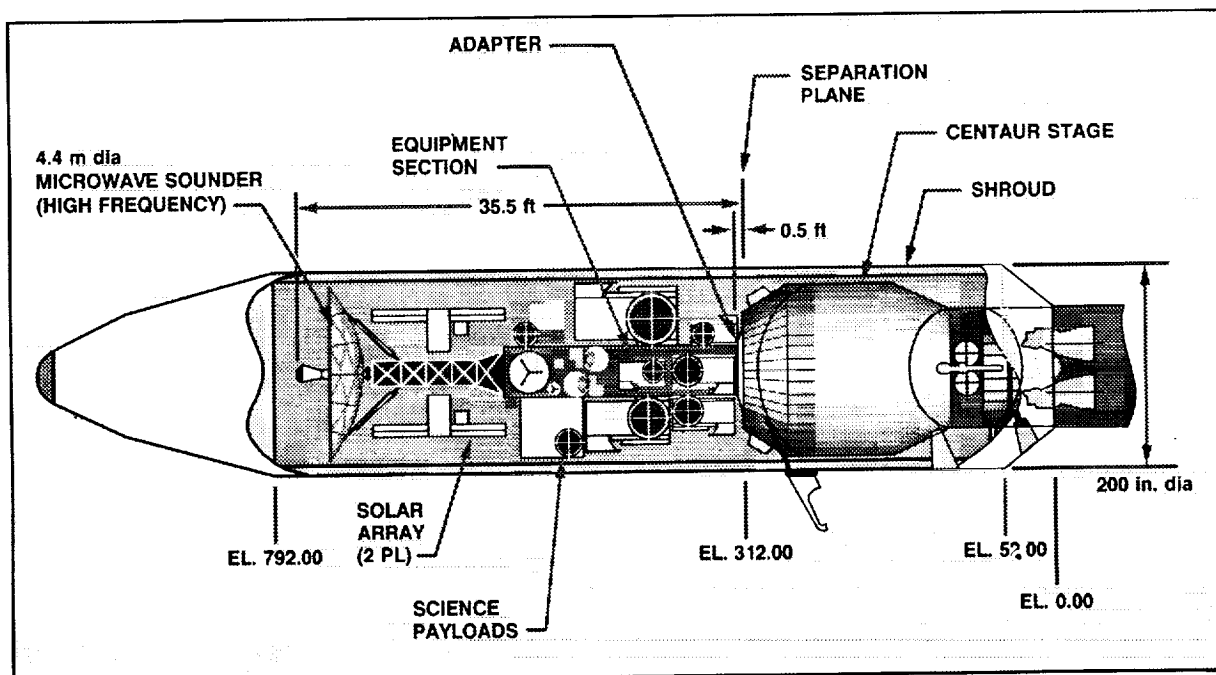
CONCEPTS			
	5F-2A	6F-2A	7F-1B
			
• S/C LIFE 10 YEARS			
DESCRIPTION			
• SPACECRAFT			
DIMENSIONS	74' x 38' x 14'	165' x 89' x 23'	41' x 39' x 12'
BUS WEIGHT (X30%)	4,211 lb	6,616 lb	4,399 lb
TOTAL WEIGHT BOL	9,914 lb	13,517 lb	8,611 lb
TOTAL POWER	2.3 kW	3.2 kW	2.4 kW
• PAYLOAD			
PAYLOAD WEIGHT	3,620 lb	4,061 lb	2,403 lb
NO. INSTRUMENTS	15	16	10
• LAUNCHER			
MAXIMUM PAYLOAD TO GEO	T-IV SRMU 13,500 lb	T-IV SRMU 13,500 lb	T-IV SRMU 13,500 lb

LAUNCH VEHICLE

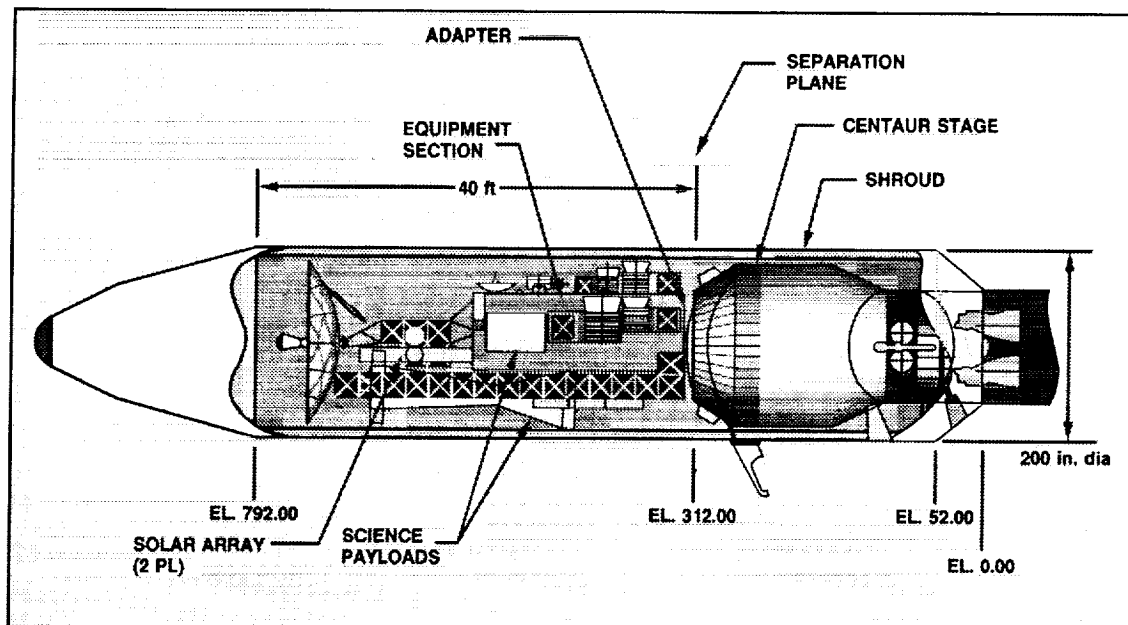
LAUNCH VEHICLE CONFIGURATION AND CAPABILITY



GEOSTATIONARY EARTH SCIENCE PLATFORM CONCEPT 5F-2A TITAN IV LAUNCH CONFIGURATION



GEOSTATIONARY EARTH SCIENCE
PLATFORM CONCEPT 6F-2A
TITAN IV LAUNCH CONFIGURATION



GEOSTATIONARY EARTH SCIENCE
PLATFORM CONCEPT 7F-1B
TITAN IV LAUNCH CONFIGURATION

